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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/626,571
				Filing Date	July 25, 2003
				First Named Inventor	DRAPEAU, Susan J.
				Art Unit	1653
				Examiner Name	ROOKE, Agnes B.
Sheet	1	of	9	Attorney Docket No.	4002-3473

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (If known)			
		US- 4394370	7-19-1983	Jeffries	
		US- 4430760	2-14-1984	Smestad	
		US- 4440750	4-3-1984	Glowacki et al.	
		US- 4472840	9-25-1984	Jeffries	
		US- 4485097	9-27-1984	Bell	
		US- 4722948	2-2-1988	Sanderson	
		US- 4789663	12-6-1988	Wallace et al.	
		US- 4863732	9-5-1989	Nathan et al.	
		US- 5124273	6-23-1992	Minami	
		US- 5162114	11-10-1992	Kuberasampath et al.	
		US- 5275954	1-4-1994	Wolfenbarger et al.	
		US- 5284655	2-8-1994	Bogdansky et al.	
		US- 5298254	3-29-1994	Prewett et al.	
		US- 5314476	5-24-1994	Prewett et al.	
		US- 5356629	10-18-1994	Sander et al.	
		US- 5405390	4-11-1995	O'Leary et al.	
		US- 5439684	8-8-1995	Prewett et al.	
		US- 5510396	4-23-1996	Prewett et al.	
		US- 5513662	5-7-1996	Morse et al.	
		US- 5516532	5-14-1996	Atala et al.	
		US- 5531791	7-2-1996	Wolfenbarger Jr.	
		US- 5707962	1-13-1998	Chen et al.	
		US- 5711957	1-27-1998	Patat et al.	
		US- 5948426	9-7-1999	Jeffries	
		US- 6030635	2-29-2000	Gertzman et al.	
		US- 6165487	12-26-2000	Ashkar et al.	
		US- 6180606	1-30-2001	Chen et al.	
		US- 6197325	3-6-2001	MacPhee et al.	
		US- 6200606	3-13-2001	Peterson et al.	
		US- 6214368	4-10-2001	Lee et al.	
		US- 6281195	8-28-2001	Rueger et al.	
		US- 6287341	9-11-2001	Lee et al.	
		US- 5290558	3-1-1994	O'Leary et al.	

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	US-	6293970	9-25-2001	Wolfenbarger Jr. et al.	
	US-	6294187	9-25-2001	Boyce et al.	
	US-	6297213	10-2-2001	Oppermann et al.	
	US-	6309659	10-30-2001	Clokier	
	US-	6311690	11-6-2001	Jeffries	
	US-	6326018	12-4-2001	Gertzman et al.	
	US-	6328765	12-11-2001	Hardwick et al.	
	US-	6331312	12-18-2001	Lee et al.	
	US-	6340477	1-22-2002	Anderson	
	US-	6346515	2-12-2002	Pitaru et al.	
	US-	6368356	4-9-2002	Zhong et al.	
	US-	6372257	4-16-2002	Marchosky	
	US-	6437018	8-20-2002	Gertzman et al.	
	US-	6458375	10-1-2002	Gertzman et al.	
	US-	6576015	06/10/2003	Geistlich et al.	
	US-	6576016	6/10/2003	Geistlich et al.	
	US-	20010014667	8-16-2001	Chen et al.	
	US-	20010018614	8-30-2001	Bianchi	
	US-	20020018796	2-14-2002	Wironen	
	US-	20020034531	3-21-2002	Clokier	
	US-	20020071827	6-13-2002	Peterson et al.	
	US-	20020072804	6-13-2002	Donda	
	US-	20020076429	6-20-2002	Wironen et al.	
	US-	20020082697	6-27-2002	Damen	
	US-	20020151985	10-17-2002	Kuberasampath et al.	

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
		WO 02/45765	06-13-2002	Osteotech Inc.		<input type="checkbox"/>

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher city and/or country where published	T ⁶	
	1	Eskandari, M.M. et al. (2006). "In vitro re-mineralization of demineralized bone matrix in human serum." <u>Clin Chem Lab Med</u> . 2006;44(1):54-8	<input type="checkbox"/>	
	2	Lee, Kenneth J.H. et al. (2005) "Demineralized bone matrix and spinal arthrodesis" <u>The Spine Journal</u> (5): 217S-223S.	<input type="checkbox"/>	
	3	Pacaccio, D. J., et al. (2005). "Demineralized bone matrix: basic science and clinical applications. <u>Clin Podiatr Med Surg North Am</u> . 2005 Oct; 22(4): 599-606, vii.	<input type="checkbox"/>	
	4	Peitzak, W.S., et al. (2005) "Demineralized bone matrix graft: a scientific and clinical case study assessment." <u>J Foot Ankle Surg</u> . 2005 Sep-Oct;44(5):345-53.	<input type="checkbox"/>	
	5	Lee, Yo-Po, et al. (2005). "The efficacy of difference commercially available demineralized bone matrix substances in an athymic rat model." <u>J Spinal Disord Tech</u> . 2005;18:439-444	<input type="checkbox"/>	
	6	Ranly, Don M., DDS, et al. (2005). "Platelet-derived growth factor inhibits demineralized bone matrix-induced intramuscular cartilage and bone formation." <u>The Journal of Bone and Joint Surgery, Inc., JBJS.org</u> , September 2005; Vol. 87-A, Number 9, 2052-64.	<input type="checkbox"/>	
	7	Ziran, B., et al. (2005). "Comparative efficacy of 2 different demineralized bone matrix allografts in treating long-bone nonunions in heavy tobacco smokers." <u>Am J Orthop</u> . 2005 Jul;34(7):329-32.	<input type="checkbox"/>	
	8	Han, Bo, et al. (2005). "Effect of moisture and temperature on the osteoinductivity of demineralized bone matrix." <u>Journal of Orthopaedic Research</u> , 23 (2005) 855-861.	<input type="checkbox"/>	
	9	Colnot, Celine, Ph.D, et al. (2005). "Mechanisms of action of demineralized bone matrix in the repair of cortical bone defects." <u>Clinical Orthopaedics and Related Research</u> , June 2005, Number 435:69-78.	<input type="checkbox"/>	
	10	Bender, Sa, et al. (2005). "Evaluation of demineralized bone matrix paste and putty in periodontal intraosseous defects." <u>J Periodontol</u> . 2005 May;76(5):768-77.	<input type="checkbox"/>	
	11	Schouten, C.C., et al. (2005) "DBM induced ectopic bone formation in the rat: The importance of surface area." <u>Journal of Materials Science: Materials in Medicine</u> , 16 (2005) 149-152.	<input type="checkbox"/>	
	12	Peterson, Brett, MD, et al. (2004). "Osteoinductivity of commercially available demineralized bone matrix." <u>The Journal of Bone and Joint Surgery, Inc., JBJS.org</u> , October 2004; Vol. 86-A, Number 10, 2243-50.	<input type="checkbox"/>	
	13	Bomback, David A., MD, et al. (2004). "Comparison of posterolateral lumbar fusion rates of grafton putty and OP-1 putty in an athymic rat model." <u>Spine</u> , 2004, Volume 29, Number 15, 1612-1617.	<input type="checkbox"/>	

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	14	Hartman, Ed H.M., MD, et al. (2004). "Demineralized bone matrix-induced ectopic bone formation in rats: <i>In Vivo</i> study with follow-up by Magnetic Resonance Imaging, Magnetic Resonance Angiography, and Dual-Energy X-Ray Absorptiometry." <u>Tissue Engineering</u> , Volume 10, Number 5/6, 2004, 747-754.	<input type="checkbox"/>	
	15	Traianedes, Kathy, et al. (2004). "Donor age and gender effects on osteoinductivity of deminerlized bone matrix." <u>J Biomed Mater Res B Appl Biomater</u> . 2004 Jul 15;70(1):21-9	<input type="checkbox"/>	
	16	Klepp, M, et al. (2004). "Histologic evaluation of demineralized freeze-dried bone allografts in barrier membrane covered periodontal fenestration wounds and ectopic sites in dogs." <u>J Clin Periodontol</u> . 2004 Jul;3 1(7):534-44.	<input type="checkbox"/>	
	17	Louis-Ugbo, John, et al. (2004). "Evidence of Osteoinduction by Grafton Demineralized Bone Matrix in Nonhuman Primate Spinal Fusion." <u>Spine</u> , 2004, Volume 29, Number 4, 360-366.	<input type="checkbox"/>	
	18	Cammisa, Frank P., Jr., et al. (2004). "Two-Year Fusion Rate Equivalency Between Grafton DBM Gel and Autograft in Posterolateral Spine Fusion." <u>Spine</u> , Volume 29, Number 6, 660-666.	<input type="checkbox"/>	
	19	Blum, B, et al. (2004). "Measurement of bone morphogenetic proteins and other growth factors in demineralized bone matrix." <u>Orthopedics</u> . 2004 Jan;27(1Suppl):s161-5.	<input type="checkbox"/>	
	20	Etienne, G., et al. (2004). "Use of cancellous bone chips and demineralized bone matrix in the treatment of acetabular osteolysis: preliminary 2-year follow-up." <u>Orthopedics</u> . 2004 Jan;27(1 Suppl):s123-6.	<input type="checkbox"/>	
	21	Leatherman, DB, et al. (2004). "The use of demineralized bone matrix for mastoid cavity obliteration." <u>Otol Neurotol</u> . 2004 Jan;25(1):22-5; discussion 25-6.	<input type="checkbox"/>	
	22	Yee, Albert Juang Ming MD, et al. (2003). "Augmentation of Rabbit Posterolateral Spondylodesis Using a Novel Demineralized Bone Matrix-Hyaluronan Putty." <u>Spine</u> , Volume 28, Number 21, 2435-2440.	<input type="checkbox"/>	
	23	Stavropoulos A., et al. (2003). "Influence of demineralized bone matrix's embryonic origin on bone formation: an experimental study in rats." <u>Clin Implant Dent Relat Res</u> . 2003;5(3):184-92.	<input type="checkbox"/>	
	24	Oaks, Daniel A., et al. (2003). "An Evaluation of Human Demineralized Bone Matrices in a Rat Femoral Defect Model." <u>Clinical Orthopaedics and Related Research</u> , Number 413, 281-290.	<input type="checkbox"/>	
	25	Han, Bo, et al. (2003). "Quantitative and sensitive in vitro assay for osteoinductive activity of demineralized bone matrix." <u>Journal of Orthopaedic Research</u> , 21 (2003)648-654	<input type="checkbox"/>	
	26	Wilkins, RM, et al. (2003). "The effect of allomatrix injectable putty on the outcome of long bone applications." <u>Orthopedics</u> . 2003May;26(5Suppl):s565-70.	<input type="checkbox"/>	

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	27	Turner, TM, et al. (2003). "Restoration of large bone defects using a hard-setting, injectable putty containing demineralized bone particles compared to cancellous autograft bone." <u>Orthopedics</u> . 2003 May;26(5Suppl):s561-5.	<input type="checkbox"/>	
	28	Takikawa, Satoshi, et al. (2003). "Comparative evaluation of the osteoinductivity of two formulations of human demineralized bone matrix." <u>J Biomed Mater Res A</u> . 2003 Apr 1;65(1):37-42. PMID:12635152 [PubMed - indexed for MEDLINE].	<input type="checkbox"/>	
	29	Cook, et al. (2002). "The effect of demineralized bone matrix gel on bone ingrowth and fixation of porous implants." <u>J Arthroplasty</u> . 2002 Jun;17(4):402-8. PMID:12066267 [PubMed - indexed for MEDLINE].	<input type="checkbox"/>	
	30	Dickman, Curtis A. (2001). "Osteoinductive demineralized bone: what's the risk? <u>Spine</u> . 2001 Jul 1;26(13):1409-10. No abstract available. PMID: 11458139 [PubMed - indexed for MEDLINE]	<input type="checkbox"/>	
	31	Bostrom, MPG, et al. (2001). "An unexpected outcome during testing of commercially available demineralized bone graft materials." <u>Spine</u> , Volume 26, Number 13, 1425-1428.	<input type="checkbox"/>	
	32	Wang, Jeffrey C., et al. (2001). "Dose-Dependent toxicity of a commercially available demineralized bone matrix material." <u>Spine</u> , 2001 Jul 1;26(13):1429-35;discussion 1435-6, PMID: 11458146 [PubMed - indexed for MEDLINE]	<input type="checkbox"/>	
	33	Li H, et al. (2000). "Identification of bone morphogenetic proteins 2 and 4 in commercial demineralized freeze-dried bone allograft preparations: pilot study." <u>Clin Implant Dent Relat Res</u> . 2000;2(2):110-7. PMID: 11359264 [PubMed - indexed for MEDLINE]	<input type="checkbox"/>	
	34	Maddox, Ewa, et al., (2000). "Optimizing human demineralized bone matrix for clinical application." <u>Tissue Eng</u> . 2000 Aug;4:41-8. PMID: 10992439 [PubMed - indexed for MEDLINE]	<input type="checkbox"/>	
	35	Russell, James L., (2002). "Grafton Demineralized Bone Matrix: Performance Consistency, Utility, and Value." <u>Tissue Engineering</u> , Volume 6, Number 4, 2000; 435-440.	<input type="checkbox"/>	
	36	Russell, JL, et al, (1999). "Clinical utility of demineralized bone matrix for osseous defects, arthrodesis, and reconstruction: impact of processing techniques and study methodology." <u>Orthopedics</u> . 1999 May;22(5):524-31; quiz 532-3. Review. PMID: 10348114 [PubMed - indexed for MEDLINE]	<input type="checkbox"/>	
	37	Carnes, DL, et al., (1999). "Evaluation of 2 novel approaches for assessing the ability of demineralized freeze-dried bone allograft to induce new bone formation." <u>J Periodontol</u> . 1999 Apr;70(4):353-63. PMID: 10328645 [PubMed - indexed for MEDLINE]	<input type="checkbox"/>	
	38	Hagino, T., et al., (1999). "Accelerating bone formation and earlier healing after using demineralized bone matrix for limb lengthening in rabbits." <u>J Orthop Res</u> . 1999 Mar;17(2):232-7. PMID: 10221840 [PubMed - indexed for MEDLINE]	<input type="checkbox"/>	
	39	Martin, George J., et al., (1999). "New formulations of demineralized bone matrix as a more effective graft alternative in experimental posterolateral lumbar spine arthrodesis." <u>Spine</u> . 1999 Apr 1;24(7):637-45. PMID:10209791 [PubMed - indexed for MEDLINE]	<input type="checkbox"/>	

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	40	Garraway R., et al., (1998). "An assessment of the osteoinductive potential of commercial demineralized freeze-dried bone in the murine thigh muscle implantation model." J Periodontol. 1998 Dec;69(12):1325-36. PMID9926762 [PubMed – indexed for MEDLINE]	<input type="checkbox"/>	
	41	Edwards, JT., et al., (1998). "Osteoinduction of human demineralized bone: characterization in a rat model." Clin Orthop Relat Res. 1998 Dec;(357):219-28. PMID:9917720 [PubMed – indexed for MEDLINE]	<input type="checkbox"/>	
	42	Chesmel, KD, et al., (1998). "Healing response to various forms of human demineralized bone matrix in athymic rat cranial defects." J Oral Maxillofac Surg. 1998 Jul;56(7):857-63; discussion 864-5. PMID: 9663577 [PubMed – indexed for MEDLINE]	<input type="checkbox"/>	
	43	Torricelli, P., et al., (1998). "In vitro osteoinduction of demineralized bone." Artif Cells Blood Substit Immobil Biotechnol. 1998 May;26(3):309-15. PMID:9635123 [PubMed – indexed for MEDLINE]	<input type="checkbox"/>	
	44	Pinholt, EM, et al., (1998). "Osteoinductive potential of demineralized rat bone increases with increasing donor age from birth to adulthood." [PubMed – indexed for MEDLINE] nor age from birth to adulthood." J Craniofac Surg. 1998 Mar;9(2):142-6. PMID:9586543	<input type="checkbox"/>	
	45	Morone, Michael A., et al., (1998). "Experimental Posterolateral Lumbar Spinal Fusion With a Demineralized Bone Matrix Gel." Spine. Volume 23(2), 15 January 1998, 159-167	<input type="checkbox"/>	
	46	Zhang, M et al., (1997). "Effect(s) of the demineralization process on the osteoinductivity of demineralized bone matrix." J Peridonatal. 1997 Nov;68(11):1085-92. PMID: 9407401 [PubMed – indexed for MEDLINE]	<input type="checkbox"/>	
	47	Caplanis, N. et al., (1997). "Effect of allogeneic, freeze-dried, demineralized bone matrix on guided bone regeneration in supra-alveolar per-implant defects in dogs." Int J Oral Maxillofac Implants. 1997 Sep-Oct;12(5):634-42. PMID:9337024 [PubMed – indexed for MEDLINE]	<input type="checkbox"/>	
	48	Becerra, J., et al. (1996). "Demineralized bone matrix mediates differentiation of bone marrow stromal cells in vitro: effect of age of cell donor." J Bone Miner Res. 1996 Nov;11(11):1703-14. PMID: 8915778 [PubMed – indexed for MEDLINE]	<input type="checkbox"/>	
	49	Rabie, AB, et al., (1996). "The effect of demineralized bone matrix on the healing of intramembranous bone grafts in rabbit skull defects." J Dent Res. 1996 Apr;75(4):1045-51. PMID 8708134 [PubMed – indexed for MEDLINE]	<input type="checkbox"/>	
	50	Nyssen-Behets C., et al., (1996). "Aging effect on inductive capacity of human demineralized bone matrix." Arch Orthop Trauma Surg. 1996;115(6):303-6. PMID:8905101 [PubMed – indexed for MEDLINE]	<input type="checkbox"/>	
	51	Feighan, JE., et al., (1995). "Induction of bone by a demineralized bone matrix gel: a study in a rat femoral defect model." PMID:8544025 [PubMed – indexed for MEDLINE]	<input type="checkbox"/>	
	52	Zhang, M. et al., (1997). "A quantitative assessment of osteoinductivity of human demineralized bone matrix." J Peridonatal. 1997 Nov;68(11):1076-84. PMID: 9407400 [PubMed – indexed for MEDLINE]	<input type="checkbox"/>	

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	53	Toba, Toshinari et al., "Regeneration of Canine Peroneal Nerve with the Use of a Polyglycolic Acid-Collagen Tube Filled with Laminin-Soaked Collagen Sponge: A Comparative Study of Collagen Sponge and Collagen Fibers as Filling Materials for Nerve Conduits," Japan Society for the Promotion of Science, Grant No. JSPS-RFTF 96100203 (2001).	<input type="checkbox"/>	
	54	Yarat, A. et al., "A method for preparing collagen graft materials," <u>J. Marmara Univ. Dent. Fac.</u> , 1996 Sept; 2(2-3):527-9	<input type="checkbox"/>	
	55	CH, Tsai et al., "A composite graft material containing bone particles and collagen in osteoinduction in mouse," <u>J. Biomed Mater Res.</u> , 2002;63(1):65-70	<input type="checkbox"/>	
	56	Friess, W. et al., "Effects of processing conditions on the rheological behavior of collagen dispersions," <u>Eur. J. Pharm. Biopharm.</u> , May 2001; 51(3):259-65.	<input type="checkbox"/>	
	57	Doillon, C.J. et al., "Collagen-based wound dressings: control of the pore structure and morphology," <u>J Biomed Mater Res</u> , October 1986, 20(8):1219-28.	<input type="checkbox"/>	
	58	Dung, S.Z. et al., "Degradation of insoluble bovine collagen and human dentine collagen pretreated in vitro with lactic acid, pH 4.0 and 5.5," <u>Arch. Oral Biol.</u> , October 1994, 39(10):901-5.	<input type="checkbox"/>	
	59	Devore, D.P. et al., "Rapidly polymerized collagen gel as a smoothing agent in excimer laser photoablation," <u>J. Refract. Surg.</u> , Jan-Feb, 11(1):50-5.	<input type="checkbox"/>	
	60	Kumar, A.J. et al., "Preoperative embolization of hypervascular head and neck neoplasms using microfibrillar collagen," <u>AJNR Am. J. Neuroradiol.</u> , Mar-Apr 1982, 3(2):163-8.	<input type="checkbox"/>	
	61	Zhang, L. et al., "The modification of scaffold material in building artificial dermis," <u>Artif. Cells Blood Substit. Immobil. Biotechnol.</u> , July 2002, 30(4):319-32.	<input type="checkbox"/>	
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	63	Lee, J.D. et al., "Characterization of UV-irradiated dense/porous collagen membranes: morphology, enzymatic degradation, and mechanical properties," <u>Yonsei Med. J.</u> , April 2001, 42(2):172-9.	<input type="checkbox"/>	
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	67	Roche, S. et al., "Native and DPPA cross-linked collagen sponges seeded with fetal bovine epiphyseal chondrocytes used for cartilage tissue engineering," <u>Biomaterials</u> , 2001, 22:9-18	<input type="checkbox"/>	
	68	Schoof, Heike et al., "Control of Pore Structure and Size in Freeze-Dried Collagen Sponges," <u>J Biomed Mater Res</u> , 2001, 58:253-357.	<input type="checkbox"/>	

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				Application Number	10/626,571
				Filing Date	July 25, 2003
				First Named Inventor	DRAPEAU, Susan J.
				Art Unit	1653
				Examiner Name	ROOKE, Agnes B.
Sheet	8	of	9	Attorney Docket No.	4002-3473/PC903.00

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher, city and/or country where published	T ⁶
	69	Quteish, D. et al., "Development and testing of a human collagen graft material," <u>J Biomed Mater Res</u> , Jun 1990, 24(6):749-60.	<input type="checkbox"/>
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	86	Wissink, M.J.B. et al., "Immobilization of heparin to EDC/NHS-crosslinked collagen. Characterization and in vitro evaluation," <u>Biomaterials</u> , 2001, 22:151-163.	
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